

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 April 2002 (25.04.2002)

PCT

(10) International Publication Number
WO 02/032414 A3

- (51) International Patent Classification⁷: A61K 38/21, A61P 31/12
- (21) International Application Number: PCT/US01/32434
- (22) International Filing Date: 16 October 2001 (16.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/241,557 18 October 2000 (18.10.2000) US
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, US, UZ, VN, YU, ZA.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): SCHERING CORPORATION [US/US]; Patent Department - K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): ALBRECHT, Janice [US/US]; 1308 Temple Grove Court, Winter Park, FL 32789 (US).
- (74) Agent: HOFFMAN, Thomas, D.; Schering-Plough Corporation, Patent Department-K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US).
- Declarations under Rule 4.17:**
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*
— *of inventorship (Rule 4.17(iv)) for US only*
- Published:**
— *with international search report*
- (88) Date of publication of the international search report:
3 April 2003
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: RIBAVIRIN-PEGYLATED INTERFERON ALFA HCV COMBINATION THERAPY

(57) Abstract: The use of ribavirin and/or pegylated interferon alfa for the preparation of a pharmaceutical composition for the treatment of chronic hepatitis C infection comprising a therapeutically weight-effective amount of ribavirin and a therapeutically effective amount of pegylated, e.g., pegylated interferon-alfa-2b or -2a, is disclosed.

WO 02/032414 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/32434

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K38/21 A61P31/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 956 861 A (SCHERING) 17 November 1999 (1999-11-17) claims 1,4,5,7,9,10 page 12 tables 1,8,14	1-4,6-15
X	WO 00 37110 A (SCHERING) 29 June 2000 (2000-06-29) cited in the application claims 1,7-9,19,20	1-15
X	WO 97 16204 A (SCHERING) 9 May 1997 (1997-05-09) claims 1-5,8,9,12-14 page 8, line 14-22	1-3,6-8
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

2 December 2002

Date of mailing of the international search report

06/12/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3018

Authorized officer

Peeters, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/32434

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 37096 A (SCHERING) 29 June 2000 (2000-06-29) claims 1,11-17 page 13, line 22-29 page 14, line 12-21	1-9
X	A.ERHARDT E.A.: "Therapie und Diagnostik der chronischen Hepatitis C" VERDAUUNGSKRANKHEITEN, vol. 18, no. 3, 2000, pages 123-133, XP008011268 page 126, column 2 page 127, column 1	1-3,6,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/32434

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 956861	A	17-11-1999	AT 216591 T	15-05-2002
			AU 3860099 A	06-12-1999
			BR 9910505 A	02-01-2001
			CN 1309568 T	22-08-2001
			DE 69901321 D1	29-05-2002
			DK 956861 T3	01-07-2002
			EP 1213029 A1	12-06-2002
			EP 0956861 A1	17-11-1999
			ES 2172288 T3	16-09-2002
			HU 0103423 A2	28-01-2002
			JP 2002515453 T	28-05-2002
			NO 20005755 A	12-01-2001
			PT 956861 T	30-08-2002
			SK 17102000 A3	10-05-2001
			WO 9959621 A1	25-11-1999
			US 6472373 B1	29-10-2002
WO 0037110	A	29-06-2000	AU 2157000 A	12-07-2000
			EP 1140143 A2	10-10-2001
			WO 0037110 A2	29-06-2000
WO 9716204	A	09-05-1997	AU 7473096 A	22-05-1997
			CA 2236591 A1	09-05-1997
			CA 2329474 A1	09-05-1997
			EP 0858343 A1	19-08-1998
			JP 2000507917 T	27-06-2000
			WO 9716204 A1	09-05-1997
			US 6461605 B1	08-10-2002
			US 6177074 B1	23-01-2001
			US 5908621 A	01-06-1999
WO 0037096	A	29-06-2000	AU 2158000 A	12-07-2000
			EP 1140142 A2	10-10-2001
			JP 2002532556 T	02-10-2002
			WO 0037096 A2	29-06-2000